

Product datasheet for **RR217384**

Stk10 (NM_019206) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stk10 (NM_019206) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stk10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR217384 representing NM_019206
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTTCGCCAATTTTCGCCGCATCTTGCGGTTATCCACCTTCGAGAAGAGAAAGTCCCGTGAATACG
 AGCATGTCCGCAGGGACCTGGACCCCAACGACGTATGGGAGATCCTGGGCGAGCTGGGAGACGGCGCCTT
 CGGCAAAGTCTACAAGGCCAAAAACAAGGAGACGGGCGCCCTGGCAGCAGCCAAAGTCATTGAGACTAAG
 AGCGAGGAGGAGCTGGAGGACTACATCGTGGAGATCGAGATCCTCGCCACCTGCGACCACCCATATATCG
 TGAAGCTCCTGGGGCCTATTACTATGACGGGAAACTATGGATCATGATTGAGTTCTGCCCTGGGGGAGC
 TGTGGATGCCATCATGCTAGAGCTGGATCGAGGCCTCACTGAGCCCAGATTCAAGTCGTTTGCCGCCAG
 ATGTTGGAGGCTCTCAACTTCTGCACGGCAAGAGAATCATCCACCGGACCTGAAAGCTGGCAACGTGC
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 AAAGCGAGATTCCTTATAGGAACGCTTACTGGATGGCCCTGAGGTGGTGTGTGTGAAACCATGAAG
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 GCTCACACCCTCCAAGTGGTCCACGGAGTTCGAGACTTCTGAAGATAGCCTTGGATAAGAACCAGAA
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 GGGAGCTGGTGGCTGAGGCGAAGGCTGAGGTGATGGAGGAGATCGAGGACGGCAAGGAGGACGGCAGGGA
 GGACGGCAGGGAGGATGGAGAAGAGGAGGATGGAGACGAGAAGGATGCTGTGAGTGTGTTCGCCCCCA
 GTCAACCACACTCAGGACTCCTCTGCCAATGGAACCTCAGCCAAGCCTCAACTCTGACAAGCTTCCAGG
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 CAAGACCTGAAGAGGACCCGCCGTTTGTGGTGGACGGTGTGGAGGTGAGCATACCACCTCCAAGATC
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 GAAGCTGACTGTGAGAGGTTGGCTAGAAATAGTAGAAATAGTTCTTCTCCAGGAACAGACTGAGCAT
 CCTCAGGCAGCTAGGAGGAGGGACCGAGACTTTGTAGCCAAGCAGAAGGAAGACCTGGAGCTGGCCATGA
 AGAAGCTCACGGCAGAAAACAGGCGTGAGATCTGTGACAAGGAACGTGATTGCCTTAAACAAGAAGCAGGA
 GCTCCTCCGAGACCGAGAGGCAGCCCTGTGGGAGATGGAGGAGCACCAGTTACAGGAGAGACATCAGCTG
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 AGAAGGCGGAGAGGCTGCAGCAGCAGCAGAAAACGAGAACCAGATGCGAGACATGGTGGCACAGTGCAG
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217384 representing NM_019206
 Red=Cloning site Green=Tags(s)

MAFANFRIRLRLSTFEKRKSREYEHVRRDLDPNDVWEILGELGDGAFGKVKAKNKETGALAAAKVIETK
 SEEELEDYIVEIEILATCDHPYIVKLLGAYYYDGKLMWIMIEFCPGGAVDAIMLELDRGLTEPQIQVVCRO
 MLEALNFLHGKRIIHRDLKAGNVLMTLEGDIRLADFGVSAKNLKTQKRDSFIGTPYWMapevvlcetmk
 DAPYDYKADIWSLGITLIEMAQIEPPHHELNPMRVLLKIAKSDPPTLLTPSKWSTEFDFLKIADKNPE
 TRPSAAQLLQHPFVSTVTSNKALRELVAEAKAEVMEIEIDGKEDGREDGREDGEEEDGDEKDAVSAVPPP
 VNHTQDSSANGTQPSLNSDKLLQDSSTPLPPSQPQEPVNGPCNQPSPGDGSPQNTSPADEVSKNDNGLKVP
 VPLRKSRLSVDARIQVTEEKQITDQAENPSSAASKPPKVNQSRPNSSALETLGVETLANGGLELPGSVT
 PNHSKRASDCSNLSTSEMDYGTSLADLSLNKETGSLSLKGSKLHNKTLKRTRRFVVDGVEVSITTSKI
 ISEDEKKDEMRFLRRQELRELLQKEEHRNQTQLSTKHLELQEQMHRRFEQEINAKKKFYDVELENLE
 RQKQKQVEKMEQDHSVRRREEAKRIRLEQDRDYARFQEQKQMKKEVKLTVERLARNRNSSSFQEQTEH
 PQAARRRDRDFVAKQKEDLELAMKKLTAENRREICDKERDCLNKKQELLRDREAALWEMEEHQLQERHQL
 VKQQLKDQYFLQRHDLRLKHEKEREQMQRYNQRMMEQLKVRQQEKARLPKIQRSDGKTRMAMYKSLHI
 NGAGSASEQREKVKQFSQQEEKQKAERLQQQKHENQMRDMVAQCESNMNELQQLQNEKCHLLVEHETQ
 KLIKALDESHNQLKEWRDKLRPRKKALEEDLNQKKREQEMFFRLSEEAE TRPTTPNRASKFFPYSSGDAS

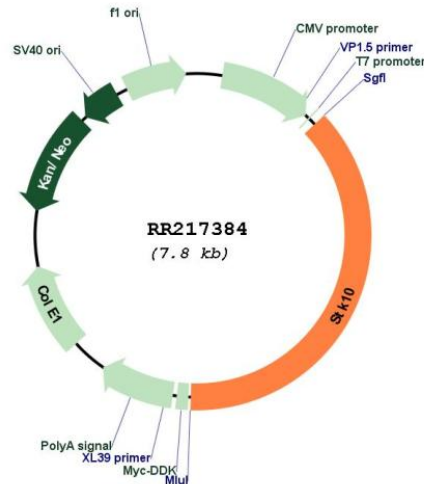
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_019206

ORF Size: 2940 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_019206.2](#), [NP_062079.2](#)

RefSeq Size: 5153 bp

RefSeq ORF: 2943 bp

Locus ID: 29398

Cytogenetics: 10q12

MW: 113.2 kDa

Gene Summary: an astrocyte gene which utilizes type 1 astrocyte-enriched cDNA library [RGD, Feb 2006]